Claims

1. A transmission comprising a displaceable shift member (5) by means of which the transmission can be shifted, wherein the shift member is displaceable by means of a shift fork unit (4) moved by an actuator and the actuator has a motor or geared motor (3), a shaft (2), a gate and a spring accumulator and wherein a rotational movement of the shaft is translated into a displacement of the shift fork by means of the gate, characterized in that the gate (14) is formed on a sleeve (13) rotationally fixedly connected to the shift fork unit (4), with the sleeve acting on the shift fork unit (4) via the spring accumulator (24) in the direction of the displacement, with the shaft (2) passing through the sleeve (13) and having a radially projecting finger (11) cooperating with the gate.

2. A transmission in accordance with claim 1, characterized in that the shift fork unit (4) forms a housing (8) which surrounds the sleeve (13) and the spring accumulator (24) and which has support surfaces (34) by means of which the shift fork unit (4) is guided on the shaft (2) in the direction of the displacement.

3. A transmission in accordance with claim 2, characterized in that the sleeve (13) is surrounded by a compression spring (24) whose end windings (26) cooperate with steps (30) in the interior of the housing (8).

4. A transmission in accordance with claim 3, characterized in that the sleeve (13) is fixedly connected to a holding yoke (16) which consists

of a guide part (17) and one respective wing (18, 18') at both sides, with the guide part (17) being guided on guide surfaces (37) extending in the longitudinal direction on the housing (8) of the shift fork unit (4) and the two parallel wings (18, 18') being fixedly connected to the end regions of the sleeve (13) and the compression spring (24) being received between them.

5. A transmission in accordance with claim 4, characterized in that the peripheral zones (25) of the compression spring (24) project beyond the wings (18, 18') in the radial direction and cooperate with steps (30) in the housing (8); and in that the compression spring (24) is pre-stressed.

6. A transmission in accordance with claim 4, characterized in that the fixed connection between the sleeve (13) and the holding yoke (16) is established in the peripheral direction by a nose (20) engaging into a longitudinal groove (23) and in the displacement direction by a collar (21) and a spring ring (22).

7. A transmission in accordance with claim 4, characterized in that the finger (11) projecting radially from the shaft (2) has a rotatably journaled roller (12) at its end cooperating with the gate (14).